

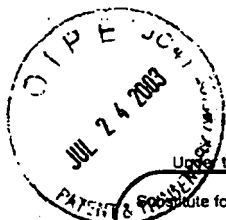
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Application No.	<u>09/736, 135</u>	Prepared by	<u>C. Mayors</u>
Examiner-GAU	<u>Dowling - 2851</u>	Date	<u>1/6/04</u>
		No. of queries	<u>1</u>
			<u>IFW</u>
		Tracking Number	<u>05873946</u>
		Week Date	<u>12/8/03</u>

JACKET			
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other

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Application Number	09/736,135
Filing Date	12/15/2000
First Named Inventor	Johnson
Art Unit	2851
Examiner Name	Dowling
Attorney Docket Number	95121961.114002

Sheet 3

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OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

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		U.S. application No. 07/967,218, Sharp et al., filed Oct. 27, 1992.	
		John Wiley & Sons, "Optical Waves In Layered Media," Pochi Yeh, A. Wiley-Interscience Publication (1988).	
		Pezzaniti, J.L. and Chipman, R.A., "Phase-only modulation of a twisted nematic liquid crystal TV by use of the eigenpolarization states," Optics Letters, vol. 18, No. 18 (1993), pp. 1567-2569.	
		Shannon, P.J., et. al., "Patterned Optical Properties in PhotoPolymerized Surface-Aligned Liquid-Crystal Films", Nature (1994), vol. 368, pp. 532-533.	
		Schmidt, Martin, et. al., "Photo-Generation of Linearly Polymerized Liquid Crystal Aligning Layers Comprising Novel, Integrated Optically Patterned Retarders and Color Filters," Jpn. J. Appl. Phys. (1995), vol. 34 pp. 3240-3249.	
		Sharp, Gary Dean. "Chiral smectic liquid crystal tunable optical fibers and modulators", 1992.	
		Scheffer, T.J., "New multicolor liquid crystal displays that use a twisted nematic electro-optical cell," J., Appl. Phys. (1973) 44(11):4799-4803.	
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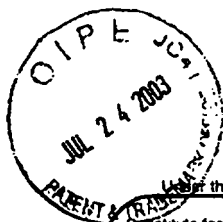
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		Sharp, G.D., et al., "P-60: Color Switching Using Ferroelectric Liquid Crystals," Society for Information Display, International Symposium, Digest of Technical Papers, Vo., XXIV, Seattle, Washington, May 18-20, 1993.	
		Kondo, et al., "Ferroelectric Liquid Crystal Materials Applied to Guest-Host Type Displays," Ferroelectrics (1988) 85:361-373.	

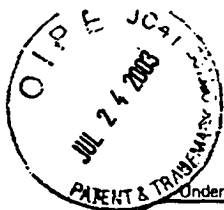
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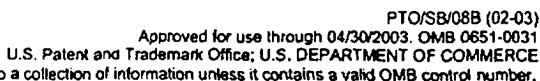
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		Buhrer, Carl F., "Synthesis and tuning of high-order birefringent filters," Applied Optics (Apr. 20, 1994) 33(12): 2249-2254.	
		Y. Wang; "Surface Plasmon Tunable Color Filter and Display Device;" Society for Informaion Display International Symposium Digest of Technical Papers; vol. 28, pp. 63-66, May 1997	
		F.H. Yu and H.S. Kwok; "A New Driving Scheme for Reflective Bistable Cholesteric LCDs;" 1997 Society for Information Display Information Symposium Digest of Technical Papers; p. 659, May, 1997.	
		Y. Nakai, "A Reflective Tri-Layer Guest-Host Color TFT-LCD;" 1997 Society for Information Display International Symposium Digest of Technical Papers; p. 83, May, 1997.	
		Bernard M. Schiffman, et al., "Birefringent Filter for Millimeter Waves," IEEE Transactions on Microwave Theory and Techniques, vol. MIT-16, No. 6, Jun. 1968.	
		Title, A.M., "Improvement of Birefringent Filters. 2: Achromatic Waveplates," Applied Optics (Jan. 1975) 14(1):229-237.	
		McIntyre, C.M. and Harris, S.E., "Achromatic Wave Plates for the Visible Spectrum," J. Opt. Soc. of America (Dec. 1968) 58(12): 1575-1580.	
		Koester, Charles J., "Achromatic Combinations of Half-Wave Plates," J. Opt. Soc. Of America (Apr. 1959) 49(4):405-409.	

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Filing Date	12/15/2000
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First Named Inventor	Johnson
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Art Unit	2851
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Sheet 6

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		"Achromatic phase-shifters: 2. A quantized ferroelectric liquid-crystal system", P. Hariharan et al., 2319 Optics Communications 117 (1995) May 15, Nos. 1/2, Amsterdam, NL, pp. 13-15.	

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		Solc, Ivan, "Birefringent Chain Filters," J. Opt. Soc. Am. (1965) 55(6):621-625.	
		Wu, Shin-Tson, "Birefringence dispersions of liquid crystals," Physical Review A, (1986) 33(2):1270-1274.	
		Harris, S.E. et al., "Optical Network Synthesis Using Birefringent Crystals," J. Opt. Soc. America (1964) 54(10):1267-1279.	
		Amman, E.O., "Optical Network Synthesis Using Birefringent Crystals, III. Some General Properties of Lossless Birefringent Networks", J. Opt. Soc. America (1966) 56(7):943-951.	

Examiner Signatur		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
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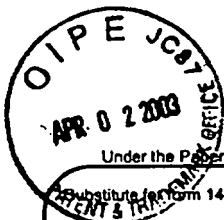


Exhibit E
Page 2

PTO/SB/08B (02-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Applicant Number	09/736,135		
		Filing Date	12/15/2000		
		First Named Inventor	Johnson		
		Art Unit	2851		
		Examiner Name	Dowling		
Sheet		of		Attorney Docket Number	95121961.114002

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Scheffer, T.J. . . . , "New multicolor liquid crystal displays that use a twisted nematic electro-optical cell," J. Appl. Phys. (1973) 44(11):4799-4803 No Month.	
		Carlson W.J. and Buhrer, C.F., "Flat Passband Birefringent Wavelength-Division Multiplexers," Electronics Letters (1987) 23(3):106-107 No Month.	
		Wright, H. et al., "Active filters enable color imaging," Laser Focus World (May 1996) 85-90. No Date.	
		Cambridge Research & Instrumentation, Inc., "Liquid Crystal Tunable Filter," Cambridge, MA, 2 pages .	
		Displaytech, Inc. (Jan. 1996), "Switchable Color Filter", Boulder, CO, 4 pages.	
		Kondo et al., "Ferroelectric Liquid Crystal Materials Applied to Guest-Host Type Displays," Ferroelectrics(1988)85:361-373 No Month.	
		Billings, B.H., "A Tunable Narrow-Band Optical Filter," J. Opt. Soc. America (1947)37:738-746. No Month.	
		Title, A.M. and Rosenberg, W.J., "Tunable birefringent filters," Opt. Eng. (1981) 20(6): 815-823. No Month.	
		Solc, Ivan, "Birefringent Chain Filters," J. Opt. Soc. Am. (1965) 55(6):621-625 No Month.	
		Wu, Shin-Tson, "Birefringence dispersions of liquid crystals," Physical Review A, (1986) 33(2):1270-1274 No Month.	

Examiner Signature	Date Considered
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	09/736,135
Filing Date	12/15/2000
First Named Inventor	Johnson
Art Unit	2851
Examiner Name	W. Dowling
Attorney Docket Number	95121961.114002

Sheet

of

Attorney Docket Number

95121961.114002

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ² Number ⁴ Kind Code ⁶ (if known)	MM-DD-YYYY		
		JP 04207774A	07-29-1992	Hiroshi	

**Examiner
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Date Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Exhibit H
Page 2

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/736,135
Filing Date	12/15/2000
First Named Inventor	Johnson
Art Unit	2851
Examiner Name	Dowling
Attorney Docket Number	95121961.114002

Sheet

of

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Title, A.M., "Improvement of Birefringent Filters. 2: Achromatic Waveplates," Applied Optics (Jan. 1975) 14(1):229-237.	
		McIntyre, C.M. and Harris, S.E., "Achromatic Wave Plates for the Visible Spectrum," J. Opt. Soc. of America (Dec. 1968) 58(12): 1575-1580.	
		Koester, Charles J., "Achromatic Combinations of Half-Wave Plates," J. Opt. Soc. Of America (Apr. 1959) 49(4):405-409.	
		Pancharatnam, S., "Achromatic Combinations of Birefringent Plates," Indian Academy Science Proceed. (1955) 41:130-136.	
		Pancharatnam, S., "Achromatic Combinations of Birefringent Plates, Part II. An Achromatic Quarter-Wave Plate," Indian Academy Science Proceed. (1955) 41:137-144.	
		"Achromatic phase-shifters: 2. A quantized ferroelectric liquid-crystal system", P. Hariharan et al., 2319 Optics Communications 117 (1995) May 15, Nos. 1/2, Amsterdam, NL, pp. 13-15.	
		"Achromatic retardation plates", Alan M. Title et al., SIPE vol. 307 Polarizers and Applications (1981), pp. 120-125.	
		"Improvement of Birefringent Filters. 2:Achromatic Waveplates", Alan M. Title, Jan. 1975/vol. 14, No. 1/ Applied Optics, pp. 229-237.	

Examiner Signature	Date Considered
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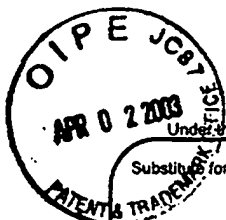


Exhibit G
Page 2

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Substitute for form 1449/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/736,135		
		Filing Date	12/15/2000		
		First Named Inventor	Johnson		
		Art Unit	2851		
		Examiner Name	Dowling		
Sheet		of		Attorney Docket Number	95121961.114002

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Sharp, Gary Dean. "Chiral smectic liquid crystal tunable optical fibers and modulators", 1992.	
		Scheffer, T.J., "New multicolor liquid crystal displays that use a twisted nematic electro-optical cell," J., Appl. Phys. (1973) 44(11):4799-4803.	
		Carlsen, W.J. and Buhrer, C.F., "Flat Passband Birefringent Wavelength-Division Multiplexers," Electronics Letters (1978) 23(3):106-107.	
		Wright, H., et al., "Active filters enable color imaging," Laser Focus World (May 1996) 85-90.	
		Cambridge Research & Instrumentation, Inc., "Liquid Crystall Tunable Filter," Cambridge, MA 2 pages.	
		Displaytech, Inc. (Jan., 1996), "Switchable Color Filter", Boulder, CO, 4 pages.	
		Title, A.M. and Rosenberg, W.J., "Tunable birefringent filters," Opt. Eng., (1981) 20(6):815-823.	
		Solc, Ivan, "Birefringent Chain Filters," J. Opt. Soc. Am. (1965) 55(6):621-625.	
		Wu, Shin-Tson, "Birefringence dispersions of liquid crystals," Physical Review A. (1986) 33(2):1270-1274.	
		Harris, S.E., et al., "Optical Network Synthesis Using Birefringent Crystals, I. Synthesis of Lossless Networks of Equal-Length Crystal," J. Opt. Soc. America (1964) 54(10):1267-1279.	

Examiner Signature		Date Considered	
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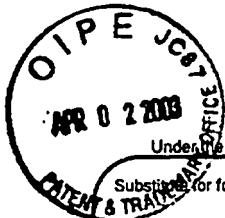


Exhibit G
Page 3

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		Applicant Number	09/736,135		
		Filing Date	12/15/2000		
		First Named Inventor	Johnson		
		Art Unit	2851		
		Examiner Name	Dowling		
Sheet		of		Attorney Docket Number	95121961.114002

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume—issue number(s), publisher, city and/or country where published.	T ²
		Amman, E.O., "Optical Network Synthesis Using Birefringent Crystals, III., Some General Properties of Lossless Birefringent Networks," J. Opt. Soc America (1966) 56(7):943-951.	
		Amman, E.O. and Yarborough, J.M., "Optical Network Synthesis Using Birefringent Crystals V. Synthesis of Lossless Networks Containing Equal-Length Crystals and Compensators," J. Opt. Soc America (1966) 56(12): 1746-1754.	
		Sharp, G.D., et al., "P-60: Color Switching Using Ferroelectric Liquid Crystals," Society for Information Display, International Symposium, Digest of Technical Papers, Vo., XXIV, Seattle, Washington, May 18-20, 1993.	
		Kondo, et al., "Ferroelectric Liquid Crystal Materials Applied to Guest-Host Type Displays," Ferroelectrics (1988) 85:361-373.	
		Billings, B.H., "A Tunable Narrow-Band Optical Filter," J., Opt. Soc. America (1947) 37:738-746.	
		Buhrer, Carl F., "Synthesis and tuning of high-order birefringent filters," Applied Optics (Apr. 20, 1994) 33(12): 2249-2254.	
		Y. Wang; "Surface Plasmon Tunable Color Filter and Display Device;" Society for Informaion Display International Symposium Digest of Technical Papers; vol. 28, pp. 63-66, May 1997	
		F.H. Yu and H.S. Kwok; "A New Driving Scheme for Reflective Bistable Cholesteric LCDs;" 1997 Society for Information Display Information Symposium Digest of Technical Papers; p. 659, May, 1997.	

Examiner Signature		Date Considered	
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LIST OF PRIOR ART CITED BY APPLICANT (PTO-1449)				ATTY. DOCKET NO. CLNK-1P14C1		APPLN. SERIAL NO. Continuation of 09/311,587	
				APPLICANT(S) Kristina M. Johnson and Gary D. Sharp			
				FILING DATE December 15, 2000		GROUP 2711	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,032,007	July 16, 1991	Silverstein, et al.	350	335		
	5,179,459	Jan. 12, 1993	Plesinger	359	74		
	5,237,435	Aug. 17, 1993	Kurematsu et al.	359	41		
	5,299,039	Mar. 29, 1994	Bohannon	359	53		
	5,422,756	June 6, 1995	Weber	359	487		
	5,574,580	Nov. 12, 1996	Ansley	359	41		
	5,585,950	Dec. 17, 1996	Nishino et al.	349	118		
	5,608,551	Mar. 4, 1997	Biles et al.	359	95		
	2,638,816	May 19, 1953	Stolzer	88	61		
	5,658,490	Aug. 19, 1997	Sharp et al.	252	299.01		
	5,400,095	March 21, 1995	Minich et al.	353			
	5,353,075	Oct. 4, 1994	Connor et al.	353			
	5,337,103	Aug. 9, 1994	Gulick	353			
	5,132,826	July 21, 1992	Johnson et al.	359			
	5,276,436	Jan. 4, 1994	Shaw et al.	340			
	4,995,702	Feb. 26, 1991	Aruga	350			
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Kondo, et al., "Ferroelectric Liquid Crystal Materials Applied to Guest-Host Type Displays," Ferroelectrics (1988) 85:361-373						
	Billings, BH., "A Tunable Narrow-Band Optical Filter," J., Opt. Soc. America (1947) 37:738-746						
	Buhner, Carl F., "Synthesis and tuning of high-order birefringent filters," Applied Optics (20 April 1994) 33(12): 2249-2254.						
	Y. Wang; "Surface Plasmon Tunable Color Filter and Display Device;" Society for Information Display International Symposium Digest of Technical Papers; vol. 28, pp. 63-66, May 1997						
	F.H. Yu and H.S. Kwok; "A New Driving Scheme for Reflective Bistable Cholesteric LCDs;" 1997 Society for Information Display International Symposium Digest of Technical Papers; p. 659, May, 1997						
	Y. Nakai; "A Reflective Tri-Layer Guest-Host Color TFT-LCD;" 1997 Society for Information Display International Symposium Digest of Technical Papers; p. 83, May, 1997.						
EXAMINER				DATE CONSIDERED			

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LIST OF PRIOR ART CITED BY APPLICANT (PTO-1449)				ATTY. DOCKET NO. CLNK-1P14C1		APPLN. SERIAL NO. Continuation f 09/311,587	
				APPLICANT(S) Kristina M. Johnson and Gary D. Sharp			
				FILING DATE December 15, 2000		GROUP 2711	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,231,432	July 27, 1993	Glenn	353			
	5,355,188	Oct. 11, 1994	Biles et al.	353			
	5,321,450	June 14, 1994	Shapiro et al.	353			
	4,416,514	Nov. 22, 1983	Plummer	350			
	4,786,964	Nov. 22, 1988	Plummer	358			
	4,808,501	Feb. 28, 1989	Chiulli	430			
	5,381,253	Jan. 10, 1995	Sharp et al.	359			
	5,510,861	Apr. 23, 1996	Minich	353			
	5,124,818	June 23, 1992	Conner	359	53		
	4,786,146	Nov. 22, 1988	Ledebuhr	350	331R		
	5,500,523	Mar. 19, 1996	Hamanaka	250	216		
	5,337,174	Aug. 9, 1994	Wada et al.	359	73		
	5,739,881	Apr. 14, 1998	Xu et al.	349	118		
	5,777,709	July 7, 1998	Xu et al.	349	120		
	5,220,447	June 15, 1993	Yokokura et al.	359	93		
	5,369,513	Nov. 29, 1994	Akatsuka et al.	359	73		
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	WO95/26110	09SE95	PCT				
	0121379	25MAY88	Japan				
	4022920	27JAN92	Japan				
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Bernard M. Schiffman, et al., "Birefringent Filter for Millimeter Waves," IEEE Transactions on Microwave Theory and Techniques," Vol. MIT-16, No. 6, June 1968.						
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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				APPLICANT(S) Kristina M. Johnson and Gary D. Sharp			
				FILING DATE December 15, 2000		GROUP 2711	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	4,668,086	May 26, 1987	Redner	356	33		
	5,774,264	June 30, 1998	Konno et al.	359	497		
	5,249,071	Sep. 28, 1993	Yoshimizu et al.	359	63		
	5,534,949	July 9, 1996	Baron	348	742		
	5,619,355	April 8, 1997	Sharp et al.	349	78		
	5,295,009	Mar. 15, 1994	Barnik et al.	359	65		
	5,235,443	Aug. 10, 1993	Barnik et al.	359	37		
	5,689,317	Nov. 18, 1997	Miller	349	97		
	3,967,881	July 16, 1996	Moriyama	350	150		
	5,268,782	Dec. 7, 1993	Wenz et al.	359	81		
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	5,833,360	Nov. 10, 1998	Knox	362	293		
	4,566,761	Jan. 28, 1986	Carlsen et al.	350	401	09/13/84	
	4,685,773	Aug. 11, 1987	Carlsen et al.	350	401	10/28/85	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER				DATE CONSIDERED			

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